## CLAIMS

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- 1. An air conditioning system for a vehicle comprising:
  - a compressor for compressing a refrigerant,
  - a condenser for condensing the refrigerant,
  - an evaporator for evaporating the refrigerant,
- a discharge fluid line interconnecting the compressor and said condenser,
  - a liquid fluid line interconnecting said condenser and said evaporator,
- a suction fluid line interconnecting said evaporator and said compressor,

an accumulator/dehydrator (A/D) disposed in said suction fluid line for accumulating refrigerant, and

a heat transfer jacket surrounding said A/D for exchanging heat with said A/D and the refrigerant therein.

- 2. A system as set forth in claim 1 wherein said heat transfer jacket defines a space surrounding said A/D and a heat transfer media disposed in said space for cooling by extracting heat from the refrigerant in said A/D.
- 3. A system as set forth in claim 2 wherein said space is defined by an inner wall of said A/D and outer wall spaced therefrom.
- A system as set forth in claim 2 wherein said jacket is defined by a
  double walled sleeve surrounding said A/D and defining said space between said walls thereof.

- 5. A system as set forth in claim 1 wherein said heat transfer jacket comprises a thermoelectric device.
- 6. A method of operating an air conditioning system of the type including a compressor for compressing a refrigerant, a condenser for condensing the refrigerant, an evaporator for evaporating the refrigerant, a discharge fluid line interconnecting the compressor and the condenser, a liquid fluid line interconnecting the condenser and the evaporator, a suction fluid line interconnecting the evaporator and the compressor, and an accumulator/dehydrator A/D disposed in the suction fluid line for accumulating refrigerant, said method comprising the steps of surrounding the A/D with a heat transfer jacket and exchanging heat with the A/D and the refrigerant therein.
- 7. A method as set forth in claim 6 further defined as surrounding the A/D with a space and disposing a heat transfer media in the space for cooling by extracting heat from the refrigerant in the A/D.
  - 8. A method as set forth in claim 7 further defined as disposing an outer wall about an inner wall of the A/D to provide the space.

9. A method as set forth in claim 7 further defined as disposing a double walled sleeve about the A/D to define the space between the walls thereof.

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10. A method as set forth in claim 6 further defined as disposing a thermoelectric device about the A/D to define the jacket.